



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L20

Issued: 5 March 2021 / 0800L (1300Z)

Valid: 8 March 2021 / 2120-2321L (9/0220-0421Z)



Forecast Discussion: Expect spectacular weather across Central Florida today with partly cloudy skies, northeast winds, and temperatures reaching into the mid-70s. Elsewhere, a low pressure area is organizing in the Gulf of Mexico which will increase cloud cover overnight. On Saturday, this system will bring widespread clouds, showers and isolated thunderstorms, as well as gusty winds through the day as it transits South Florida. The system will continue to move east into the Atlantic on Sunday, taking much of the unsettled weather with it, as high pressure builds into Florida. The pressure gradient between these two systems will keep gusty northerly winds over the Space Coast throughout the day. On Monday, winds will diminish and become more northeasterly as the high pressure area moves off the Mid-Atlantic coast. The primary weather concern for an attempt Monday evening is liftoff winds from this pressure gradient.

Expect much the same conditions on Tuesday as the winds become easterly, increasing cloud cover slightly. This will add a slight threat for a Cumulus Cloud Rule violation to the liftoff winds as primary concerns for an attempt Tuesday.

Launch Day	Probability of Violating Weather Constraints						
	20%	Primary Concerns: Liftoff Winds					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility:	None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity:	62°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
24-Hour Delay	Liftoff Winds (200'):	060° 17 - 22 mph	Cirrostratus	Few	28,000	30,000	Solar Activity: Low
	Probability of Violating Weather Constraints						
	20%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility:	None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
Temp/Humidity:			Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'):			Cumulus	Few	3,500	5,000	Solar Activity: Low
			Altocumulus	Scattered	12,000	14,000	
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.							
Next Forecast Will Be Issued		6 March 2021					